

White Trillium

by Arya Akhavan (February 2013)

Angles for R.I. = 1.540

76 + 6 girdles = 82 facets

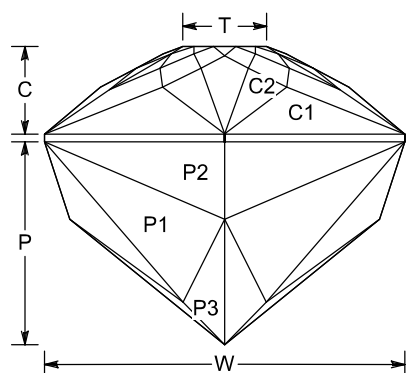
3-fold, mirror-image symmetry

96 index

$L/W = 1.153$ $T/W = 0.233$ $U/W = 0.233$

$P/W = 0.562$ $C/W = 0.243$

$Vol./W^3 = 0.324$



PAVILION

P1	46.02°	12-20-44-52-76-84	Cut to centerpoint.
G1	90.00°	08-24-40-56-72-88	Set stone size.
P2	71.87°	08-24-40-56-72-88	Level girdle.
P3	43.00°	11-21-43-53-75-85	Meet P1, P2

CROWN

C1	40.00°	08-24-40-56-72-88	Set girdle width (optional frosted)
C2	32.00°	05-11-21-27-37-43-53-59-69-75-85-91	Meet G1, C1
C3	28.89°	96-32-64	Meet G1, C1, C2
C4	28.00°	08-24-40-56-72-88	Meet C1, C2
C5	24.00°	04-12-20-28-36-44-52-60-68-76-84-92	Meet C2, C3, C4 (only 6 facets meet) (optional frosted)
C6	26.74°	15-17-47-49-79-81	Meet C2, C4, C5 (optional frosted)
C7	20.62°	96-32-64	Meet C3, C5
C8	20.00°	08-16-24-40-48-56-72-80-88	Meet C4, C5 (optional frosted)
T	0.00°	Table	Meet C5, C7, C8; C5, C8 (optional frosted)

This design was written to mimic blossoms of the white trillium, Ontario's provincial flower and the symbol of the Ontario government. The design itself performs extremely well, with a crown and reflection pattern highly reminiscent of the flower. You can leave some facets frosted to give it more of a "floral" effect! Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I prefer it in white topaz or CZ.

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